What is claimed is:

1   1.   An imager comprising:

2   an array of pixel sensors, each pixel sensor to indicate at least two

3   different primary color components of an image; and

4   for each pixel sensor, at least two storage locations located in the array to

5   store the indications from the pixel sensor.

1   2.   The imager of claim 1, further comprising:

2   for each pixel sensor, circuitry to, during a first integration interval, couple

3   the pixel sensor to one of the associated storage locations to store one of the

4   indications from the sensor and, during a second integration interval, couple the

5   pixel sensor to another one of the storage locations to store another one of the

6   indications from the sensor.

1   3.   The imager of claim 2, wherein the circuitry includes an analog-to-digital

2   converter to convert the indications from the pixel sensor into a digital format

1   4.   The imager of claim 1, wherein the indications comprise analog signals.

1   5.   The imager of claim 1, wherein the indications comprise digital signals.

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1   6.   A camera comprising:

2   an array of pixel sensors, each pixel sensor to indicate at least two color

3 components of an image;

4   a programmable color filter substantially covering the array;

5   a controller to control the color filter to cause the pixel sensors to indicate

6 the color components one at a time; and

7   for each pixel sensor, at least two storage locations located in the array to

8 store the indications from the pixel sensor.

1   7.   The camera of claim 6, further comprising:

2   for each pixel sensor, circuitry to, during a first integration interval, couple

3 the pixel sensor to one of the associated storage locations to store one of the

4 indications from the sensor and, during a second integration interval, couple the

5 pixel sensor to another one of the storage locations to store another one of the

6 indications from the sensor.

1   8.   The camera of claim 7, wherein the circuitry includes an analog-to-digital

2 converter to convert the indications from the pixel sensor into a digital format.

1   9.   The camera of claim 6, wherein the indications comprise analog signals.

1   10.   The camera of claim 6, wherein the indications comprise digital signals.

11.   A method for use with an imager, comprising:

    during a first integration interval, storing an indication of a first primary color component of an image in a pixel sensor array; and

    during a second integration interval, storing an indication of a second primary color component of the image in the array, the second primary color component being different from the first primary color component.

12.   The method of claim 11, further comprising:

    retrieving the indications of the first and second primary color components from the array after the expiration of the first and second integration intervals.

13.   The method of claim 12, wherein the retrieving further includes:

    retrieving an indication of a third primary color component of the image from the array after the expiration of the first and second integration intervals, the third primary color being different from the first and second primary color components.

14.   The method of claim 11, further comprising:

    during a third integration interval, storing an indication of a third primary color component, the third primary color component being different from the first and second primary color components.

15.   The method of claim 11, wherein the act of storing the indication of the first primary color component comprises storing a digital signal.

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16. The method of claim 11, wherein the act of storing the indication of the first primary color component comprises storing an analog signal.

17. The method of claim 11, further comprising:
programming a color filter to allow light including the first primary color component to strike the pixel sensors during the first integration interval and allow light including the second primary color component to strike the pixel sensors during the second integration interval.